

# Wexiödisk<sup>W</sup>

## RACK CONVEYOR DISHWASHER WD-11

(translation of the original documentation)

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### Installation and user manual

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# 1. General information

Read the instructions in this manual carefully as they contain important information regarding the correct, effective and safe installation, use and servicing of the dishwasher.

Keep this manual in a safe place so that it can be used by other operators of the dishwasher.

The electronics in the machine are RoHS compatible.

## 1.1 Symbols used in this manual



This symbol warns of situations where a safety risk may arise. The instructions given should be followed in order to prevent injury.



This symbol on a component is a warning of electrical equipment. The machine is sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics.



This symbol explains the correct way to perform a task in order to prevent poor results, damage to the dishwasher or hazardous situations.



This symbol identifies recommendations and hints to help you to get the best performance from the machine.



This symbol explains the importance of careful and regular cleaning of the machine to meet hygiene requirements.



## 1.2 Symbols on the dishwasher



This symbol on a component is a warning of electrical equipment. The component may only be removed by a qualified electrician. The machine is sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics.

### 1.2.1 Machine marking

The machine has two rating plates, one of which is placed at the bottom of one side of the machine and the other in the electrical cabinet. The technical information on the plates is also included on the machine's wiring diagram. The various rating fields show:

<b>Wexiödisk AB</b>				
Type	<input type="text" value="1"/>			
No	<input type="text" value="2"/>	<input type="text" value="3"/>	IP <input type="text" value="4"/>	
<input type="text" value="5"/> V	<input type="text" value="6"/> ~	<input type="text" value="7"/> Hz	<input type="text" value="8"/> A	
<input type="text" value="9"/> kW	<input type="text" value="10"/> kW	<input type="text" value="11"/> kW		
Mårdvägen 4, S-352 45 VÄXJÖ SWEDEN				

marks\_07

1. Machine type
2. Machine serial number
3. Year of manufacture
4. Enclosure protection class
5. Voltage
6. Number of phases with or without zero
7. Frequency
8. Main fuse
9. Motor output
10. Electrical heat output
11. Max. output

## 1.3 Checking that the machine and the manual correspond

Check that the type description on the rating plate corresponds with the type description on the front of the manual. If manuals are missing, it is possible to order new ones from the manufacturer or the local distributor. When ordering new manuals, it is important to quote the machine number found on the rating plates.

## 2. Safety instructions

### 2.1 General information

The machine is CE marked, which means that it complies with the requirements of the EU machinery directive with regard to product safety. Product safety means that the design of the machine will prevent personal injury or damage to property.



Modifying the equipment without the approval of the manufacturer invalidates the manufacturer's product liability.

To further improve safety during installation, operation and servicing, the operator and the personnel responsible for installing and servicing the machine should read the safety instructions carefully.



Switch off the machine immediately in the event of a fault or malfunction. The machine must only be serviced by trained engineers. The regular checks described in the manual must be carried out in accordance with the instructions. The machine must be serviced by a person authorised to do so by the manufacturer. Use original spare parts. Contact an authorised service company to draw up a programme of preventative maintenance. Dangerous situations may arise if the instructions above are not followed.

Before using the machine, ensure that personnel are given the necessary training in operating and maintaining the machine.

### 2.2 Transport



Handle the machine with care during unloading and transport to avoid the risk of it tipping over. Never lift or move the machine without using the wooden packaging to support the stand.

### 2.3 Installation



This symbol on a component is a warning of electrical equipment. The machine is sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics.



The water connections must only be put in place by qualified technicians.



Water pipes must be connected in a way that complies with the current regulations of the local water supply authority. Check that the water and steam connections are tight before operating the machine.

Make sure that the mains voltage is the same as that indicated on the machine's rating plate. The machine should be connected to a lockable mains switch.

## 2.4 Detergent and drying agent



Only detergent and drying agent intended for industrial dishwashing machines must be used. NOTE! Washing-up liquid must not be used in the machine or for pre-treating items (soaking, pre-washing, etc.). Contact your detergent supplier regarding the choice of a suitable detergent.



Be aware of the risk of handling washing and drying agents. Protective gloves and safety glasses should be used when handling dishwasher detergent. Read the warning text on the detergent and drying agent containers as well as the detergent supplier's regulations.

## 2.5 Operation

### 2.5.1 Crushing risk



The reciprocating action of the feeding cradle might cause injuries at the in- and outfeed ends of the machine and also in the scullery equipment such as corner feeding, moving straight parts and conveyor bends connected to the machine.

### 2.5.2 Risk of slipping



Keep the floor dry to eliminate any risk of slipping. Mop up any water which has been spilled.

## 2.6 Cleaning



The temperature of the water in the tank is approx. 60°C and contains detergent. Be careful when draining and cleaning the tank. Use protective gloves.

### 2.6.1 Pressure washing



The machine must not be cleaned with a pressure washer. If pressurised water is directed at the electrical cabinet, the water may penetrate the cabinet and damage the electrical equipment, which may affect the safety of the machine.

In order to satisfy current requirements, electrical components of approved enclosure classes are used. There is no enclosure class capable of withstanding high pressure.

### 2.6.2 The outside of the machine



Pressure washers and hoses must not be used to wash the outside of the machine. Water can penetrate into the electrical cabinet and the control panel and damage the equipment, which may affect the safety of the machine.



### 2.6.3 Cleaning the floor



When the floor is being cleaned using a pressure washer, water can splash up under the machine and damage the components. These have not been designed to withstand being washed with water. Never use a pressure washer to clean the floor within 1 metre of the dishwasher without the special protective covers that are available to prevent splashing. Problems with splashing can also occur when using ordinary hoses.

## 2.7 Repairing and servicing the dishwasher



Disconnect the power supply before removing the front panel. Avoid touching hot pipes and the booster heater.

### 2.7.1 Safety instructions if the machine is not functioning



Check the following:

- Does the display show any error messages?
- Has the machine been used according to the instructions?
- Are all the removable parts in the correct place?
- Is the mains switch in the ON position?
- Are the fuses in the electrical cabinet undamaged? Ask the service personnel to check the fuses.

If this does not solve the problem, ask authorised service personnel to check the machine.

## 2.8 Recycling the machine



When the dishwasher has reached the end of its service life, it must be recycled in accordance with current regulations. Contact professionals who specialise in recycling.

## 3. Installation

### 3.1 General information



The machine must be installed by authorised personnel only.

Read these instructions carefully, as they contain important information regarding the correct installation method.

The instructions should be used together with the machine's wiring diagram and flow diagrams for water and steam.



The machine is CE marked. The CE mark is only valid for machines that have not been modified. If the machine is damaged as a result of the instructions not being followed, this invalidates the supplier's guarantee and the product liability.

### 3.2 Requirements for the installation site

#### 3.2.1 Lighting

In order to ensure the best possible working conditions during installation, operation, servicing and maintenance, make sure that the machine is installed in a well-lit room.

#### 3.2.2 Ventilation

The machine produces heat and steam when in operation. In order to ensure the best possible working conditions, a certain air change rate is required in the dish-washing room. The ventilation requirements for the room are dimensioned as per applicable standards.

#### 3.2.3 Drains

There must be a floor drain for the machine's waste water and for water used for cleaning. The drain should be located under the machine's loading bench. The floor drain capacity can be found in the TECHNICAL INFORMATION.

#### 3.2.4 Space for servicing

A 1-metre area should be left clear in front of the machine for servicing purposes. The area above the machine must not contain any equipment which could prevent the fitting, servicing and replacement of parts.

### 3.3 Transport and storage

Always transport the machine in an upright position.



Take care during transport, as there is a risk of the equipment tipping over.

NOTE: The machine must not be transported without a pallet or other support. Some form of support beam must always be used along the sides of the machine during transport. otherwise the machine may become damaged. When transporting the machine without a normal wooden pallet, always check that none of the components underneath the machine can be damaged.

If the machine is not being installed immediately, it must be stored in a frost-free area where the air is dry.

### 3.4 Unpacking

Check against the delivery note that all the units have been delivered.

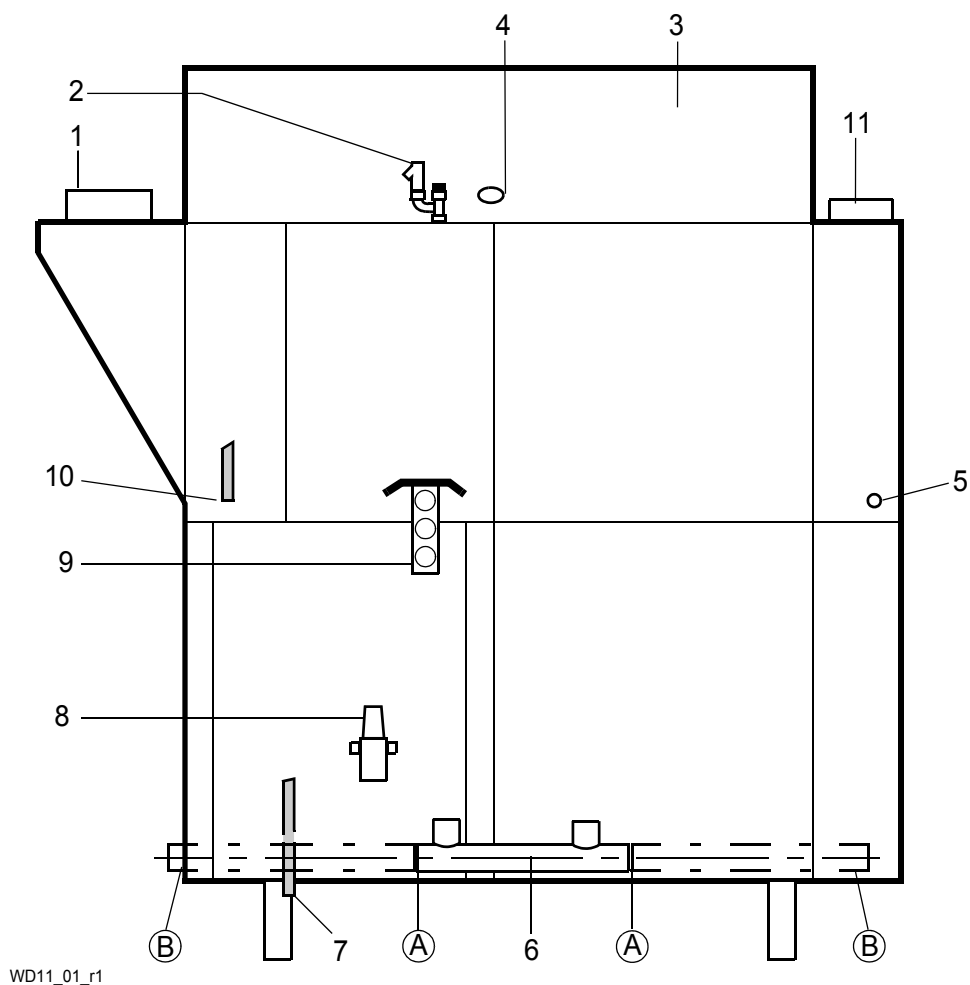
Remove the packing material. Inspect the machine for any transport damage.

### 3.5 Recycling the packaging



Packaging must be disposed of or recycled in accordance with local regulations.

### 3.6 Installation



*A=Connection for drain to machine with feed direction from right to left.  
B=Perforation in end plate for drain connection.*

1. Ventilation connection, outfeed
2. Hot water connection (reverse side). Cold water connection (extra equipment)
3. Electrical cabinet
4. Electrical connection (reverse side).
5. Photocell
6. Drain
7. Alternative hot water connection from floor (reverse side)
8. Reducing valve
9. Impulse arm for final rinse
10. Alternative electrical connection from floor behind front cover plate
11. Ventilation connection, infeed

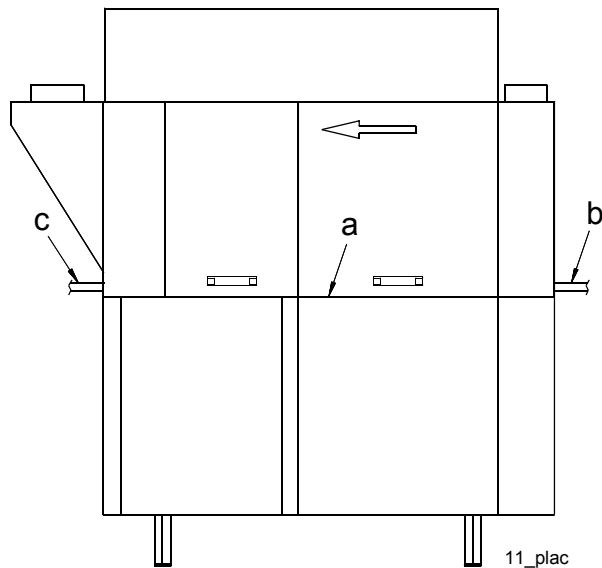
## Installation

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### 3.6.1 Positioning the machine

Remove the protective plastic on the sides which will be put against the wall.

Put the machine in position and check that it is horizontal using a spirit level. Adjust the height using the machine's legs.



The machine must be evenly balanced and checked on three sides:

- On the cover edge of the front (a) (tank body).
- On the cover edge of the infeed (b).
- On the cover edge of the outfeed (c).

Once the machine has been filled with water, check that it is level. Close the doors and check that the tops of the doors are in a straight line. Adjust the machine using the legs.

### 3.6.2 Electrical connection



This symbol on a component is a warning of electrical equipment. The part may only be removed by a qualified electrician or trained personnel.

Information about electrical connections can be found on the machine's wiring diagrams. The wiring diagrams are shown on the inside of the electrical cabinet door. Store the diagrams in the electrical cabinet after installation.



The machine should be connected to a lockable mains switch. This should be positioned on the wall where it is protected from the water and steam which may be released when the door is opened.

Connect the electric cable at (4). NOTE: In special cases certain dishwashers may have an electrical connection from the floor.

Check the direction of rotation of the pump motors during operation when the tanks are full of water. The direction of rotation must conform without exception to the direction of the arrow on the pump. Stop the dishwasher immediately if the direction of rotation is incorrect and change two of the incoming phases.

### 3.6.3 Water connection

It is important that the water supply has sufficient pressure to ensure the correct flow of water to the machine. The required pressure can be found in the TECHNICAL INFORMATION. If the water pressure is too low, a booster pump must be fitted.



A stopcock must be installed on the water supply pipes.

Connect the hot water pipe according to the marks by the connection point (2). The connection is fitted with a filter, non-return valve and vacuum valve. If the machine is connected to a hose, the internal diameter of the hose must be at least 12 mm.

On machines with a water connection from the floor, the water is connected at (7).

### 3.6.4 Drain connection

The drain connection must consist of a 50 mm metal pipe that will withstand mechanical impact or a 50 mm plastic pipe. The capacity of the floor drain must be 3 litres/second.

The drain (6) can be fitted to the left or right. The drain is connected at (A) and run to the floor drain where it should flow freely above the water level.

Remove the perforated section of the end plate at (B) and pull the pipe through the hole.

### 3.6.5 Ventilation

Connection to the ventilation duct is done at the outfeed (1) and the infeed (11)

### 3.6.6 Installing extra equipment

#### Limit switch

Connection of the limit switch is done on connection X10 in the electrical cabinet. When connecting, remove the existing clamp on the connection points. See the machine's wiring diagram. The limit switch is designated S11 in the wiring diagram. NOTE: The machine's voltage is 24V.

#### Conveyors

Installation of in- and outfeed equipment (conveyors, curves) is performed in accordance with the wiring diagram's main circuit instructions. This applies to machines equipped with a motor switch and contactors for this equipment.

Connection of supply voltage to the in- and outfeed equipment is performed in accordance with the wiring diagram's instructions. NOTE: The machine's voltage is 24V.

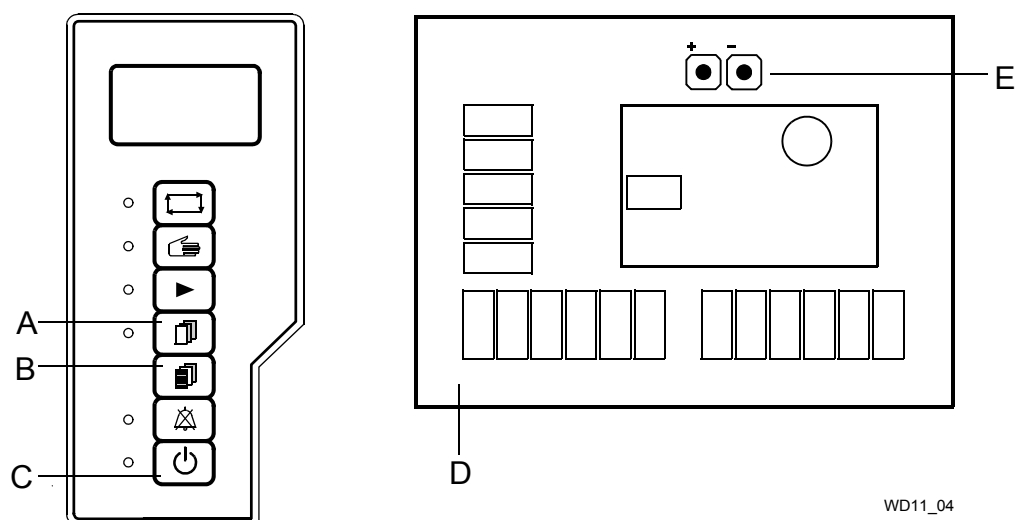


When fitting a motor switch and contactors, use the components on the wiring diagram and follow the connection instructions. This affects the manufacturer's liability - see "SAFETY INSTRUCTIONS."

#### Emergency stop

Connection of further emergency stops is done to connector X10 in the electrical cabinet. Replace the existing clamp on the connection points with the connection of a new emergency stop. See the machine's wiring diagram. The extra emergency switch is designated S2 in the wiring diagram. NOTE: The machine's voltage is 24V.

### 3.7 Setting the final rinse flow



*Setting the final rinse flow*

*A=Button for the diagnostics function*

*B=Button for switching between diagnostic messages*

*C=On/Off Button*

*D=Circuit board (I/O board)*

*E=Plus and minus buttons for, among other things, relay test*

The final rinse flow is adjusted using the reducing valve which is located next to the solenoid valve.

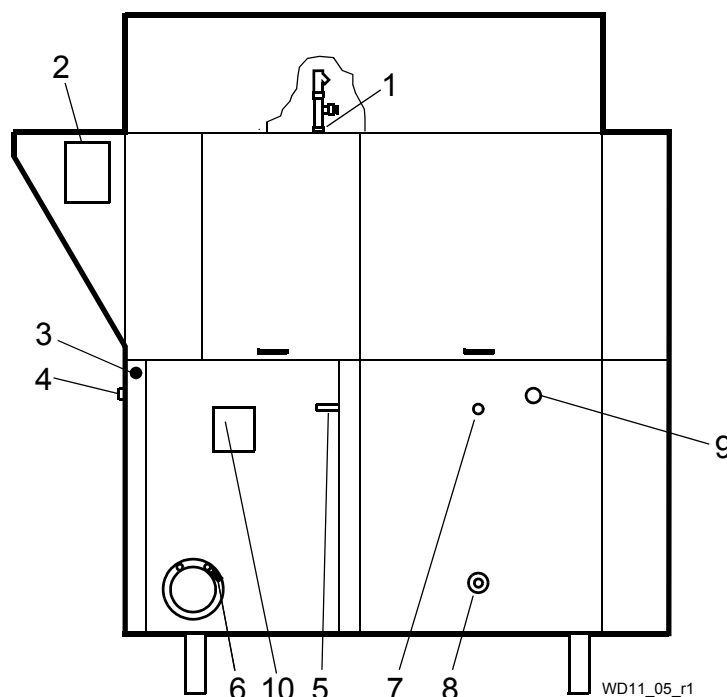
- Close the doors.
- Switch on the machine supply voltage using the button (C).
- Activate the diagnostics function by pressing and holding button (A) until the display shows: SETPOINTS - DIAGNOSIS - RELAY TEST - STATISTICS.
- Select RELAY TEST using button (A).
- Press button (B) to display the first text in the RELAY TEST menu.
- Scroll forward using the button (B) to the text: RE14 CARD1 Y02 VALVE FINAL RINSE ON OFF.
- Open valve Y02 using the plus button (E) on the circuit board (D).
- Check the final rinse flow on the control panel display. The flow should be 7 litres per minute. Where necessary, adjust the flow using the reducing valve.
- After adjusting, close value Y02 using the minus button (E) on the circuit board.
- Exit the diagnosis function by pressing and holding down button (A) until the corresponding LED extinguishes.



### 3.8 Installing detergent and drying agent equipment

The machine is ready for fitting detergent and drying agent equipment, but this is not included in the delivery.

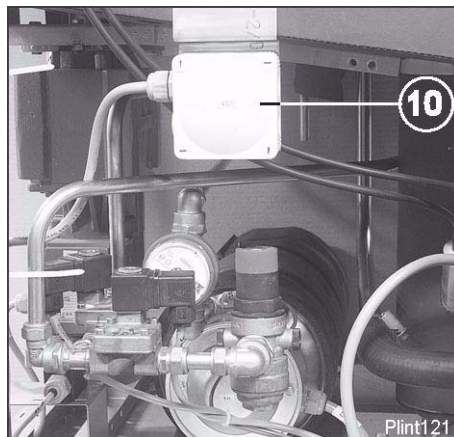
To avoid making unnecessary holes in the machine, the equipment should be placed on the wall behind the machine on the outfeed end.



1. Hot water outlet
2. Alternative location of detergent equipment
3. Hole  $\varnothing$  25 mm for hose intended for detergent in solid form
4. Hole  $\varnothing$  19 mm for drying agent hose
5. Plugged connection  $\varnothing$  18 mm for connecting hose for detergent in solid form
6. Drying agent dosage outlet
7. Plugged connection  $\varnothing$  11 mm for liquid detergent
8. Plugged connection for measuring cell for measuring the detergent concentration in the chemical washing tank. The measuring cell is connected in the junction box (10).
9. "DETERGENT" sticker. The label is affixed to the inside rear wall of the chemical wash tank and indicates the alternative position of the detergent opening. Drill a hole from the back of the chemical tank through the plugged hole in the cover plate.
10. Junction box with connections for detergent and drying agent.

### 3.8.1 Electrical connection of the equipment

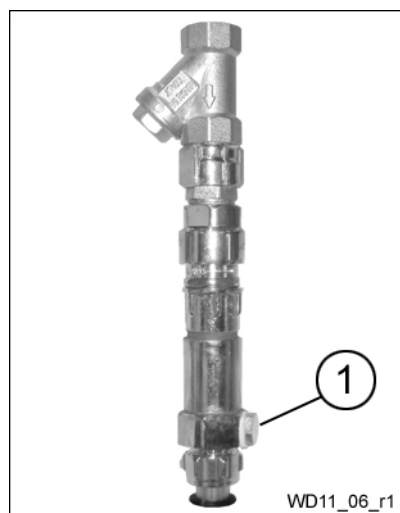
The electrical connection for the detergent and drying agent is in the junction box (10).



*Connections for detergent and drying agent. Note: 230V*

### 3.8.2 Detergent dosing system

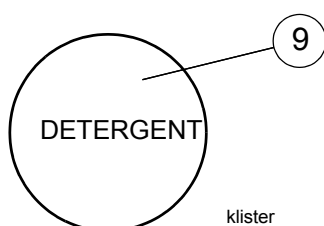
The water outlet (1) for the detergent dosage is placed on the incoming hot water pipe.



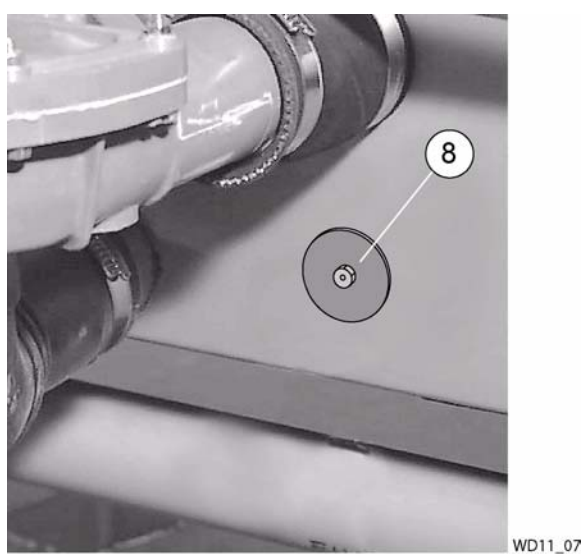
*Hot water outlet*



*Plugged holes for hoses for detergent and drying agent.*



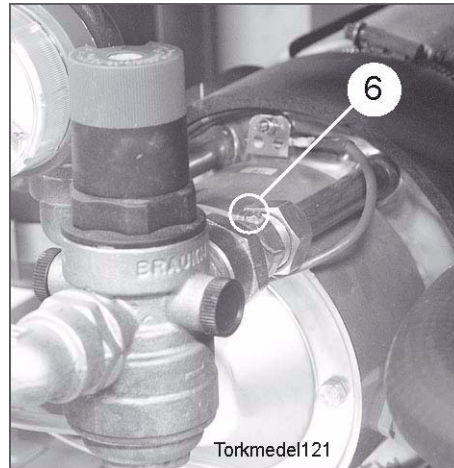
*Adhesive label indicating alternative opening for detergent.*



*Plugged hole for measuring cell.*

### 3.8.3 Drying agent dosing system

The connection for drying agent (6) is located next to the booster heaters.



*Drying agent dosage outlet*

## 3.9 Trial run

Prepare the machine for a trial run by following the INSTRUCTIONS FOR USE. The instructions describe the measures that must be taken to prepare the machine for operation.

### 3.9.1 Start-up schedule

This should be completed and signed by the customer on start-up.

Machine type:

Machine serial number:

Installation date:

<b>Customer:</b>
Postal address:
Telephone:
Contact:

<b>Dealer:</b>
Telephone:
Contact:

<b>Installation company:</b>
Telephone:
Contact:

<b>Service company:</b>
Telephone:

<b>Detergent supplier:</b>
Telephone:

<b>End user's signature:</b>

<b>Name in block capitals:</b>

Read the installation and user manuals carefully. Then check the following points:

1. Check:

- Water, steam and drain connections
- That the machine is evenly balanced
- That the closed doors are in line
- That the benches, conveyor bend etc. are correctly fitted
- Detergent and drying agent
- That the level pipe, outlet seal, filters and curtains are in place
- That the mini-switches are in the off position
- That the overheating protection on the booster heater and the tank element are set to zero

2. Filling the machine:

- Close the doors
- Switch on the main
- Fill the machine with water as per the INSTRUCTIONS FOR USE Note: It takes between 5 and 30 minutes to fill and heat up the machine, depending on the incoming water temperature. Before turning on the mini-switches, check to ensure that water is coming out of the final rinse ramp. The filling check function on the booster heater is disabled if the current is broken and the filling check function then starts again.

3. Start the machine:

- Check the direction of rotation of the pumps NOTE: If the direction of rotation is wrong, the phase must be inverted on the lockable main switch.
- Check the overload switch

4. Lock the impulse arm and the photocell in the activated position:

- Run the machine continuously for 10 minutes. Check and adjust the temperature and water flow
- Final rinse approx. 7 l/min.
- Reset the impulse arm and the photocell to the initial position.

5. Run a number of washes complete with loads and check that:

- There are no water leaks
- The door breaker works
- The limit switch is working
- Steam discharge from the machine
- The water temperatures are maintained
- The washed items are clean
- The washed items are dried

6. Final check: Empty the machine. Turn off the power with the main switch.

- Re-tighten all the connections on the circuit breakers and relays
- Set all the circuit breakers to the ON position
- Display the maintenance instructions supplied with the machine.

7. Train the dishwashing staff

### 3.10 Technical documentation



To ensure that the machine is used correctly, it is essential that the documentation supplied with the machine is made available to the staff who will be using the machine. The installation and user manuals should be kept near the machine.

If the service manual is supplied with the machine, it should be given to the service engineer who is responsible for the machine.

If the spare parts manual is supplied with the machine, it should be given to the service engineer who is responsible for the machine.

If the WEB Tool manual is supplied with the machine, it must be kept near the machine.

## 4. Instructions for use



All staff using the machine must be given training in how the machine works by the person responsible for staff safety.

The dishwasher should not be used by anyone suffering from a physical or mental illness.

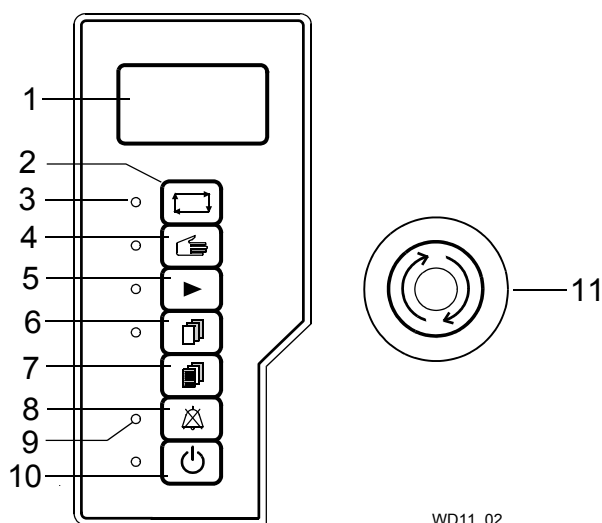
Children should be supervised to ensure that they do not play with the machine.



Text messages appear on the machine's display which indicate what the machine is doing. The machine's reference values, which can be changed, and alarms of different types also appear on the display.

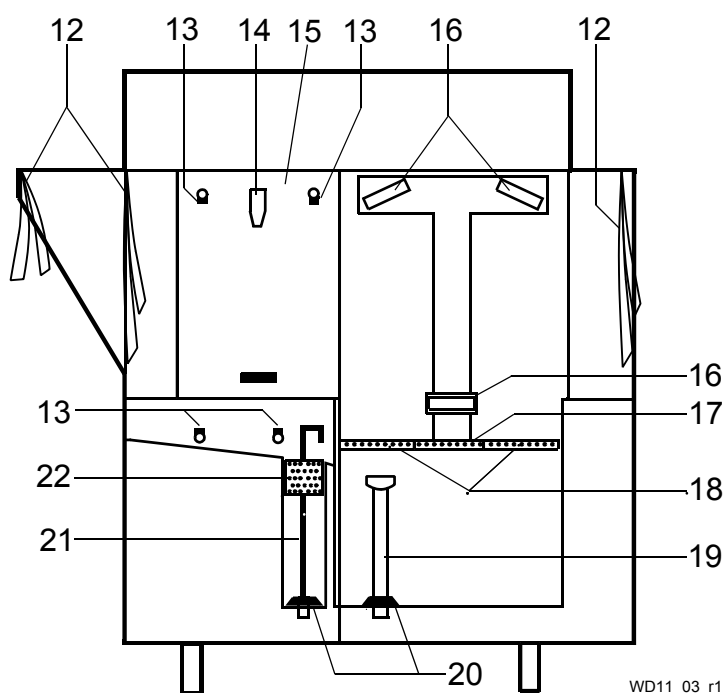
### 4.1 Preparations

#### 4.1.1 The machine's design



*Control panel*





WD11\_03\_r1

1. Display
2. Button for automatic operation
3. LED light for indication of activated function (5 LEDs)
4. Button for manual operation
5. Button for the feed
6. Button for the diagnostics function.
7. Button for diagnostic messages
8. Button for resetting alarm
9. Red LED for indication of alarms. If the LED flashes, the alarm can be reset by pressing button (8).
10. On/Off
11. Emergency stop
12. Curtains
13. Rinse nozzle
14. Catch
15. Door
16. Wash arms
17. Plate between strainers
18. Filter
19. Level pipe
20. Rubber sleeve
21. Outlet seal
22. Filter for the final rinse

## 4.1.2 The machine's area of application

The machine is intended for washing items used to prepare and serve food, including various types of items for storing food. You should therefore use a detergent suitable for this type of washing.

## 4.1.3 Preparations before filling

Check:

- that the machine has been cleaned and that the stopcocks on the water supply are open
- that the main switch is switched on
- the amount of detergent and drying agent



NOTE: Washing-up liquid must not be used in the machine or for pre-treating items (soaking, pre-washing, etc.). Ordinary washing-up liquid causes foam to form and produces poor washing results.

Fit:

- Level pipe (19) and outlet seal (21). Check that they are closed. The rubber sleeve (20) must seal against the base plate. Check that the rubber sleeve has not been damaged.
- The plate (17) between the strainer, filters (18, 22) and curtains (12).

## 4.1.4 Filling and heating the machine

- Close the doors.
- Press button (10) to switch on the power supply.
- Start the filling process by pressing button (2) or (4). The filling and heating process will begin.
- When the machine is filled and heated, it starts and runs for a while to mix the detergent.
- When the detergent is mixed, the message on the display indicates that the feed should start. Start the feed by pressing the button (5).
- The machine is now ready to wash.



NOTE: The time it takes for the machine to fill and heat up to the right washing temperature varies between 5 and 30 minutes, and depends on the temperature of the incoming water.

## 4.2 Using the machine



DIN 10510 is a German standard which describes how the washing process must work in rack conveyor or flight type machines in order to ensure good washing results. Amongst other things, it recommends that the contact time should be around 120 seconds for normally soiled loads. The contact time is the time which the load spends in a wash or rinse zone with washing water containing detergent. In principle this means the period from when the load enters the pre-wash zone to when it is rinsed with clean water in the final rinse zone. The standard is a useful means of comparing the capacity and consumption of different dishwashers.

### 4.2.1 Washing, selection of operating mode

#### Washing with automatic operation

For automatic operation, press button (2). The corresponding LED (2) lights up.



*Button for automatic operation*

Washing with automatic stop. The machine starts when a basket is pushed into it. The basket stays in the washing zone until the next basket pushes it onwards. The machine stops automatically after a set period of time if no new basket is fed in.

Start the feed by pressing the button (5).

#### Washing with manual operation

For manual operation, press button (4). The corresponding LED lights up.



*Button for manual operation*

Washing without automatic stop. The machine starts straight away. Manual operation is a good idea when the items are heavily soiled. If you only feed in one basket, it stops and stays in the washing zone. The time in the zone is decided by the operator. The basket is pushed out of the machine when a new basket is fed in.

Start the feed by pressing the button (5).

## Feeding loads into the machine

- Before feeding dishware into the machine, soak dried-on food and remove large food particles. The items must not be soaked or pre-washed with ordinary washing-up liquid.
- Put the items in baskets. Plates and trays should be placed lengthways in the dishwasher. Canteens and large items should always be upended in special racks.
- The feed should be started using the push button (5). The corresponding LED lights up.
- Push the basket towards the feed opening until the feed device hooks the basket in place.
- Feed in the baskets at approx. 35 cm intervals. Increase the distance if the items to be washed are heavily soiled.

### 4.2.2 Guaranteed final rinse

The temperature of the final rinse water is always correct and the right amount of rinse water is always used.

If the rinse temperature is too low, an alarm is triggered on the control panel. The machine continues washing until the right temperature is reached. However, the alarm can be reset in the meantime by pressing button (8) on the panel. The wash programme continues, but the machine will then rinse at a lower temperature. However, an alarm is displayed.

If the flow during the final rinse is too low, an alarm is displayed on the control panel. The alarm can also be set up to stop the machine. The factory setting is for an alarm only. If you need an alarm which stops the machine, the setting must be changed by a service engineer in the machine's software.

### 4.2.3 Emergency stop

The machine has an emergency stop button (11). If the machine has been stopped during operation using the emergency stop button, the button must be reset by turning it in the direction of the arrows. Then press the button (5) to restart the feed.

## 4.2.4 Changing the water

NOTE: The water in the wash tank must be changed regularly, otherwise foam will start to form and the washing results will deteriorate. If the filters are clogged with foam or if foam comes out of the waste pipe, the water must be changed immediately.

For best wash results, it is important that the water in the tanks is changed when it becomes too dirty. The water should always be changed if foam begins to form in the washing tanks.

- Switch the machine off by pressing button (10).
- Remove the filters (18) and strainer (17). Empty the washing tank by turning the level pipe (19) a quarter of a turn.
- Clean the tank, filters and level pipe.
- Refit the components.
- Refill the machine. See "Filling and heating the machine".

## 4.3 After use – cleaning



HACCP is a preventive inspection system which ensures that hygiene requirements are met during the washing process and the cleaning of the machine. As a result of its design, the machine meets strict hygiene requirements. Regular, thorough cleaning is also important from a hygiene perspective. Cleaning the machine carefully helps to ensure good washing results and reduces the risk of dirt accumulating inside the machine.

See the WEB Tool manual for the HACCP alarm options.

### 4.3.1 Daily cleaning

#### Cleaning the inside of the machine

- Switch the machine off by pressing button (10).
- Empty the tanks by turning the level pipe (19) and the drain seal (21) a quarter of a turn.
- Clean the strainer and filters (17,18), curtains (12), level pipe (19) and rinse nozzles (13). Never leave the level pipes and outlet seal so that the rubber sleeve rests on a surface. The sleeve can become deformed leading to the risk of water leakage in the tanks.
- Clean the washer arm nozzles (16).
- Clean the doors (15). Wipe the rubber strips on the doors which are fitted at the top of the back of the doors.
- Rinse all the inside surfaces of the machine and clean the tanks.
- Finally, clean the filter (22).
- Refit the components.
- Leave the doors open.

## Cleaning the outside of the machine

Wipe the outside of the machine with a soft, damp cloth.



If detergent is used, it must not contain abrasives. Detergents containing abrasives will damage the stainless steel panels.



The outside of the machine must not be hosed down. Water can enter the machine and damage the control panel and electrical equipment.

## Incorrect cleaning methods

NOTE: If the incorrect cleaning method is used, this may damage the machine. The following points must be observed:

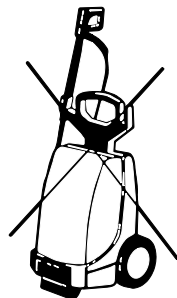


Do NOT use steel wool as it will cause corrosion to form in the machine.



Pressure washers can damage the machine and must NOT be used for cleaning purposes. Never use a pressure washer to clean the floor within 1 metre of the dishwasher without the special protective covers that are available to prevent splashing. The supplier cannot be held liable for any faults caused by the use of pressure washers on the machine and any such use will invalidate the warranty.

There is a risk of splashing even if the floor is hosed down.



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*Steel wool and pressure washers must not be used for cleaning.*

## 4.3.2 Cleaning and checking each week or as required

Weekly cleaning should be more thorough than daily cleaning. In addition to the daily cleaning measures, follow these instructions:

- Clean the washer arms (16). Brush and rinse the inside of the washer arms and clean the nozzles.
- Check and clean the rinse nozzles (13).
- Remove and clean the doors (15). Open the door, depress the catch (14) and lift the door vertically.
- Refit all cleaned components.
- Decalcify the machine when necessary.

## Instructions for use

### 4.3.3 Operating problems

#### Troubleshooting

In addition to the faults shown on the control panel, other faults can occur. The table below shows some faults which can be rectified by the operator. If the problem persists, contact authorised service personnel.

Problem	Cause	Action
No indication on the control panel display when the power is switched on by pressing button (10).	The mains switch is off.	Turn on the mains switch. This is located on the door of the machine's electrical cabinet.
The machine does not fill with water.	The stopcock on the incoming water supply is closed.	Open the stopcock.
	The doors are open.	Close the doors.
The machine does not stop filling.	Level pipe or outlet seal not in place.	Fit the level pipe or outlet seal.
	The level pipe or one of outlet seals' rubber sleeves are not sealing against the bottom plate.	Check that the level pipe and drain seals are closed. Replace the rubber sleeves, if they are damaged.
The machine does not start washing.	The doors are not closed.	Close the doors.
	Outward feed conveyor limit switch has been activated.	Remove the basket from the limit switch.
The display indicates that one door is open.	An object is preventing the door from closing.	Remove the object.
Noise from the wash pump.	Low water level in the tank.	Check that the tank's level pipe or outlet seal are closed. Change the rubber sleeve if it is damaged.
	Foam in the tank.	Change the water.
The machine is not cleaning properly.	The rinsing and washing nozzles are clogged with dirt.	Check and clean the nozzles.
	There is too little detergent.	Check the amount of detergent.
	Foam formation in the washing tanks.	Check that the washing temperature is not too low and that the correct detergent is being used. Change the water if foam forms.
	Dirt has dried on the items to be washed.	Soak the items before washing.
	The water in the tanks is too dirty.	Change the water.
	The items are incorrectly positioned in the baskets.	Use the right type of basket for the items and put the items in the basket following the instructions in the section "Using the machine".
	Curtains fitted incorrectly.	Fit the curtains correctly.
The items are tipped over in the baskets.	Items positioned incorrectly in the baskets.	Put the items in the correct position.
	The items are too light.	Use a mesh grid to hold the items in place.
The washed items do not dry.	The rinsing nozzles are blocked.	Check and clean the nozzles.
	Too little drying agent.	Check the quantity of drying agent.

When you contact service personnel, you will need to provide the following information:

- Machine model
- Machine serial number and installation date
- A brief description of the problem
- What happened immediately before the fault occurred

## Instructions for use

### Machine faults and user errors

Machine faults and user faults are indicated by messages on the display (1). The alarms indicated with a flashing LED (9) can be reset by pressing button (8) when the cause of the alarm has been rectified. Alarms that are indicated by the fact that LED (9) is lit but not flashing cannot be reset by the operator.

The following alarms can be dealt with by the operator. For other alarms, or if an alarm reset with button (8) recurs, authorised service personnel must be contacted.

Alarm text	Cause	Action
(63) POWER SUPPLY FAILURE CHECK THE EMERGENCY SWITCH	The emergency stop button (11) is depressed when the machine starts	Reset the emergency stop by turning it in the direction of the arrows. Restart the machine.
(1) EMERGENCY STOP ACTIVATED	The emergency stop button (11) is depressed.	Reset the emergency stop by turning it in the direction of the arrows. Start the feed by pressing button (5).
(14) WEAK SIGNAL FROM PHOTOCCELL START WASH CLEAN PHOTOCCELL	Dirt on the photocell inside the infeed hood.	Clean the photocell. The alarm in the display will disappear after cleaning.
(47) HACCP ALARM PUMP FUNCTIONALITY DEFECT PRESS RESET	One of the pumps is not working.	Reset the alarm using button (8). Contact service personnel.
(64) HACCP ALARM WRONG TEMPERAURE IN TANK PRESS RESET	The washing temperature in one of the tanks is too low.	Reset the alarm using button (8). Contact service personnel.
(67) HACCP ALARM WRONG TEMPERATURE IN BOILER PRESS RESET	The temperature in one of the booster heaters is too low.	Reset the alarm using button (8). Contact service personnel.
(72) HACCP ALARM WASHING DETERGENT FUNCTIONALITY DEFECT PRESS RESET	The detergent has run out.	Check and will with new detergent. Reset the alarm using button (8).
(78) HACCP ALARM FINAL RINSE DEFECT PRESS RESET	The water stopcock is closed. The rinse nozzles (13) for the final rinse are blocked.	Open the stopcock. Clean the nozzles. Reset the alarm using button (8).
(29) EXTERNAL ALARM INPUT ACTIVATED		Reset the alarm using button (8). Contact service personnel.
(30) TIMEOUT FILLING OF TANKS PRESS RESET	The water stopcocks are closed. The level pipe (19) or the outlet seals (21) are not closed. The rubber sleeves are not sealing against the bottom plate.	Open the stopcocks. Close the level pipe and the outlet seals. Check the rubber sleeves. Reset the alarm using button (8).
(31) TIMEOUT HEATING TANKS AND BOILERS PRESS RESET	The heating process took too long.	Reset the alarm using button (8). Contact service personnel.



## Instructions for use

Alarm text	Cause	Action
(32) BASKET IN FINAL RINSE ZONE OR SENSOR ERROR B02 PRESS RESET	Starting the machine with a basket in the final rinse zone. The impulse arm is activated.	Remove the basket. Reset the alarm using button (8). Contact service personnel.
(33) DOOR IS OPEN CLOSE DOOR		Close the door and start the feed by pressing button (5).
(41) LOW LEVEL IN TANK 2 (CHEM WASH TANK 1)	The level pipe or the outlet seal are not closed. The rubber sleeve does not seal against the bottom plate.	Close the level pipe or the outlet seal. Check the rubber sleeve.
(45) LOW LEVEL IN FINAL RINSE TANK	The outlet seal is not closed. The outlet seal's rubber sleeve is not sealing against the bottom plate.	Close the outlet seal. Check the rubber sleeve.
(51) OVERLOAD FEEDING ACTIVATED REMOVE OBJECT RESTART FEEDING	An object has stopped the feed.	Remove the item. Start the feed by pressing button (5).
(85) OVERLOAD FEEDING ACTIVATED PRESS RESET		Reset the alarm using button (8).
(52) FEEDER LIMIT SWITCH ACTIVATED. REMOVE OBJECT FROM THE FEEDER LIMIT	A basket has activated the limit switch.	Remove the basket. The feed will start automatically.
(61) LOW TEMPERATURE IN TANK 2 (CHEM WASH TANK 1)	The temperature in tank 2 is too low.	Reset the alarm using button (8). Contact service personnel.
(66) LOW TEMPERATURE IN THE FINAL RINSE BOILER	The temperature in the booster heater is too low when the final rinse starts.	Reset the alarm using button (8). Contact service personnel.
(71) WASHING DETERGENT ALARM ACTIVE CHECK DETERGENT DEVICE	The detergent has run out.	Check and fill with new detergent.
(74) POWER GUARD ACTIVATED PART OF EQUIPMENT IS TURNED OFF		Option
(77) FINAL RINSE ERROR SENSOR ERROR FLOW METER BV02		Reset the alarm using button (8).
(76) FINAL RINSE ERROR NO FLOW IN THE MACHINE	The water supply is shut off.	Check that the stopcocks on the incoming water supply are open. Reset the alarm using button (8).
(75) FINAL RINSE ERROR LOW FLOW IN THE MACHINE	The rinse nozzles (13) for the final rinse are blocked.	Clean the nozzles. Reset the alarm using button (8).
(80) STRAINER STOPPED IN TANK 02. CLEAN FILTER AND PRESS RESET	The filter (22) in the final rinse zone are blocked.	Clean the filters. Reset the alarm using button (8).
(83) TIME FOR MAINTANANCE CONTACT YOUR MAINTANANCE SUPPLIER		Contact service personnel. Reset the alarm using button (8).

## 5. Technical information

The manufacturer reserves the right to make changes to the technical data.

Technical data	
Pump motor, chemical wash (kW)	1,5
Pump motor, recirculating rinse (kW)	0,11
Drive motor (kW)	0,12
Booster heater (kW)	12
Tank heater, chemical wash (kW)	6
Tank volume, chemical wash tank (litres)	67
Tank volume, final rinse tank (litres)	6
Weight, machine in operation (kg)	350
Enclosure class (IP)	55

Capacity and operating data	
Normal wash capacity (baskets/hour) *	50-100
Capacity in accordance with DIN 10510 (baskets/hour)	56
Cold water consumption, normal final rinse (litres/basket)	2
Surface temperature at a room temperature of 20°C (°C)	35
Noise level (dB(A)) **	68

\* Maximum capacity 180 baskets/hour.

\*\* Measured 1 metre from the side of the machine.

Connection, machine	
Total connected power (kW)	19,7
Main fuse 400V 3~ (A) *	35
Max. connection area 400V 3~ (L1-L3, PE) Cu (mm <sup>2</sup> )	35

\* Other voltages on request

Water, drain and ventilation connections	
Water quality, hardness (°dH)	2-7
Hot water connection 50-70°C (internal thread)	R½"
Drain connection, PP pipe (ø mm)	50
Water capacity, pressure (kPa)	250-600
Water capacity, flow (litres/minute)	11
Floor drain, capacity (litres/second)	3

Size and weight for transport, standard machine *	
Size ** (LxWxH (m))	2,1x0,8x200
Weight ** (kg)	280

\* Normal delivery fully assembled. If necessary, delivered in smaller components.

\*\* Including packaging.

## CE Declaration of Conformity

This declaration of conformity only refers to the machine/product in the condition in which it is supplied, not any additions or modifications made by the customer/user.

**Manufacturer:** Wexiödisk AB Mårdvägen 4 S-352 45 Växjö, Sweden Tel: +46 470 77 12 00 Fax: +46 470 237 52

**Representative:** BF Engineering Services LTD, Rekal doo, Agroznanje doo, Fastus ehf,  
M/s Aishwarya Consolidates Pvt Ltd, Nakanishi Mfg Co Ltd, Martin Food Equipment Ltd

**Compiler of technical documentation:** Magnus Ericsson

Our machines are manufactured 2012 in accordance with applicable EU directives and we declare under sole responsibility that the following products:

Single tank dishwashers with accessories:

**WD-4x, WD-6x, WD-7, WD-PRM6/7**

Pot wash machines:

**WD-12, WD-90x, WD-100GR**

Tunnel dishwashers with accessories:

**WD-11, WD-151C/211C, WD-151E/211E/241E/331E/421E, WD-153/213/243/333/423  
WD-215T, WD-PRM60/90, WD-T60/60F/80/120, WD-C90/180, WD-BF90/180**

Conveyor dishwashers\*:

**WD-B xxx, WD-xxCT, WD-40BRE, ACS-38/47**

Special dishwashers\*:

**WD-18CW, WD-25BR, WD-25T, WD-8020/8020W/8020WL/9020/9020W, ACS 400HC, ACS 800**

Conform to the following directives:

### EU Declaration of Conformity

according to EU's Machinery Directive 2006/42/EG, annex IIA.

#### Harmonised standards

- EN 12 100-1 Machine safety: specification for general requirements, part 1
- EN 12 100-2 Machine safety: specification for general requirements, part 2.
- EN 60 204-1 Machine safety: electrical equipping of machines: general requirements

### EU Declaration of Conformity

according to EU's Low-voltage directive 2006/95/EC.

#### Harmonised standards

- EN 60 529 Specification for degrees of protection provided by enclosures (IP code).

#### For products marked with \*

- EN 60 204-1 Machine safety: electrical equipping of machines: general requirements

#### For other products

- EN 60 335-1 Safety of household and similar electrical appliances - General requirements.
- EN 60 335-2-58 Specification for safety of household and similar electrical appliances. Particular requirements. Commercial electric dishwashing machines.
- EN 50106 Safety - Particular rules for routine tests.

### EU Declaration of Conformity

according to EU's EMC-directive 2004/108/EC.

#### Harmonised standards

- EN 61 000-6-2 Electromagnetic compatibility (EMC). Generic standards. Immunity standard for industrial environments.
- EN 55 014-1 Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. (EMC) - Part 1: Emission

Växjö 2012-01-02



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